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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,521	07/25/2003	Tomohisa Konno	240882US0	1125	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER		
			RACHUBA, MAURINA T		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			3723		
			NOTIFICATION DATE	DELIVERY MODE	
			02/13/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)				
	10/626,521	KONNO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Maurina Rachuba	3723				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>30 No</u>	ovember 2007.					
· <u> </u>	action is non-final.					
3) Since this application is in condition for allowan		secution as to the merits is				
, 	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-11,13-15 and 18-21</u> is/are pending i	n the application.					
	4a) Of the above claim(s) <u>1-6,8,10 and 11</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>7.9,13-15 and 18-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
<u> </u>						
9) The specification is objected to by the Examine		t				
10) ☐ The drawing(s) filed on is/are: a) ☐ acce						
Applicant may not request that any objection to the o		• •				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the prior application for a list of the certified copies of the prior application from the International Bureau 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No In this National Stage				
Attachment(s)	ν	(DTO 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P					
Paper No(s)/Mail Date	6)					

Application/Control Number: 10/626,521 Page 2

Art Unit: 3723

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06 November 2007 has been entered.

Election/Restrictions

2. Claims 1-6,8,10, and 11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 17 April 2006.

Claim Rejections - 35 USC § 102

3. Applicant has overcome the rejection under 35 USC 102.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

Application/Control Number: 10/626,521 Page 3

Art Unit: 3723

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 6. Claims 12, 13, 16 and 21 are rejected under 35 U.S.C. 103(a) as being obvious over Motonari et al, 7, 087,530.
- 7. The applied reference has a common assignee with the instant application.

 Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

8. '530 discloses a process for producing a semiconductor device, comprising: the step of polishing a surface to be polished of a semiconductor material with an aqueous dispersion for chemical mechanical polishing comprising abrasive grains and a heterocyclic compound; wherein: the abrasive grains comprise: (A) simple particles comprising at least one selected from the group consisting of inorganic particles and organic particles; and (B) composite particles; and wherein the composite particles (B) are composed of inorganic organic composite particles obtained by integrally combining organic particles with inorganic particles, see column 5, lines 24 through column 6, lines 67; the heterocyclic compound comprises at least one member selected from the group consisting of a quinoline carboxylic acid, an indolizine, a compound having a 5membered heterocyclic, and a compound having a 6-membered heterocyclic; and the 6membered heterocyclic comprises at least one member selected from the group consisting of 3-amino-5,6-dimethyl- 1,2,4-triazine, 2,4-diamino-6-diallylamino- 1,3,5triazine, 3-amino-5,6-dimethyl-1,2,4-triazine, benzoguanamine, thiocyanuric acid, melamine, phthalazine, and 2,3-dicvano-5-methylpyrazine, see column 4, lines 27-57, in the claimed range, see column 5, lines 16-23. Note that the composite particles are inorganic particles adhered through electrostatic force to core organic particles. '530 discloses an overall particle size of between 0.001-3 µm, or between 1 and 3000 nm, which includes any abrasive particle, simple or composite. '530 discloses the use of organic acid, such as malonic or succinic acid, see column 7, lines 48-62. '530 does not explicitly disclose the various proportions of particle types, by weight or mass, or the % by mass of the organic acid. It would have been obvious to one having ordinary

Page 4

Art Unit: 3723

skill in the art at the time the invention was made to have provided '530 with the claimed ranges, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Response to Arguments

9. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection. Applicant argues that there is no evidence in Motonari that the amounts of the abrasive particles, as claimed by applicant, are result-effective variables. While Motonari does not breakdown the amounts of the inorganic, organic, and composite particles, Motonari does state that the overall amount of the abrasive is a result effective variable, in that the amount of abrasive effects the rate of material removal and cost of the process. If the overall amount of abrasive material is a result effective variable, then the amounts of the components of the abrasive material must also be result effective variables. Further, it is noted that applicant has not

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maurina Rachuba whose telephone number is 571 2724493. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571 272 4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/626,521 Page 6

Art Unit: 3723

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. Rachuba/ Primary Examiner, Art Unit 3723